INTL

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1626GMS

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS 4	MAY 10	CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS 5	MAY 11	KOREAPAT updates resume
NEWS 6	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS 7	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS 8	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS 9	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS 10	JUN 26	TULSA/TULSA2 reloaded and enhanced with new search and and display fields
NEWS 11	JUN 28	Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 12	JUl 11	CHEMSAFE reloaded and enhanced
NEWS 13	JUl 14	FSTA enhanced with Japanese patents
NEWS 14	JUl 19	Coverage of Research Disclosure reinstated in DWPI
NEWS 15	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS 16	AUG 28	ADISCTI Reloaded and Enhanced
NEWS 17	AUG 30	CA(SM)/CAplus(SM) Austrian patent law changes
NEWS 18	SEP 11	CA/CAplus enhanced with more pre-1907 records
NEWS 19	SEP 21	CA/CAplus fields enhanced with simultaneous left and right truncation
NEWS 20	SEP 25	CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS 21	SEP 25	CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 22	SEP 25	CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may

result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:43:45 ON 27 SEP 2006

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:44:04 ON 27 SEP 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 SEP 2006 HIGHEST RN 908803-03-2
DICTIONARY FILE UPDATES: 26 SEP 2006 HIGHEST RN 908803-03-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

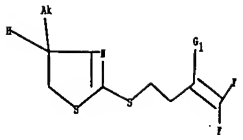
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

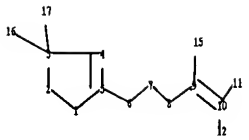
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10560556.str





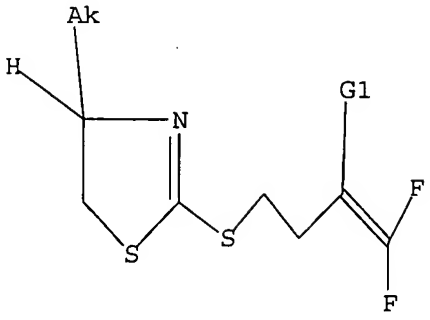
chain nodes :
6 7 8 9 10 11 12 15 16 17
ring nodes :
1 2 3 4 5
chain bonds :
3-16 3-17 5-6 6-7 7-8 8-9 9-10 9-15 10-11 10-12
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
3-4 3-17 4-5 5-6 6-7 9-15
exact bonds :
1-2 1-5 2-3 3-16 7-8 8-9 9-10 10-11 10-12
isolated ring systems :
containing 1 :

G1:H,F

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 15:CLASS 16:CLASS 17:CLASS

L1 STRUCTURE UPLOADED

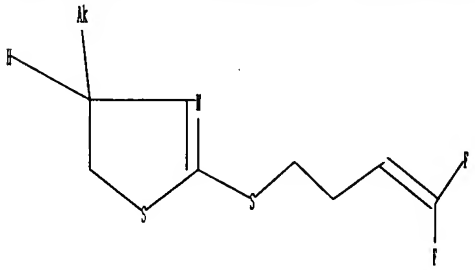
=> d l1
L1 HAS NO ANSWERS
L1 STR

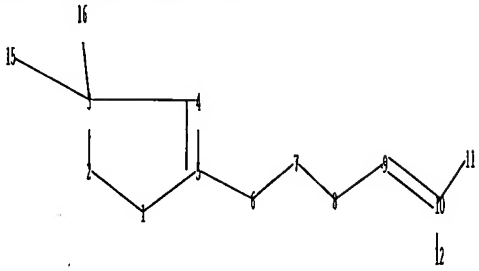


G1 H,F

Structure attributes must be viewed using STN Express query preparation.

```
=> s l1
SAMPLE SEARCH INITIATED 14:44:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       29 TO ITERATE

100.0% PROCESSED       29 ITERATIONS                                2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          257 TO      903
PROJECTED ANSWERS:               2 TO      124

L2            2 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 14:44:23 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      608 TO ITERATE

100.0% PROCESSED      608 ITERATIONS                               12 ANSWERS
SEARCH TIME: 00.00.01

L3            12 SEA SSS FUL L1

=>
Uploading C:\Program Files\Stnexp\Queries\10560556a.str
```





```
chain nodes :
6  7  8  9  10  11  12  15  16
ring nodes :
1  2  3  4  5
```

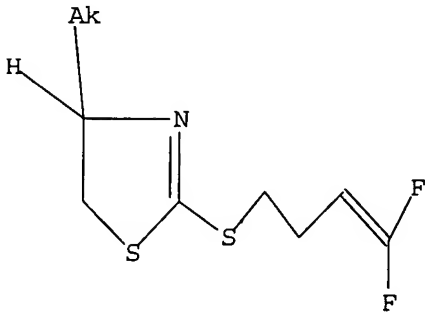
chain bonds :
3-15 3-16 5-6 6-7 7-8 8-9 9-10 10-11 10-12
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
3-4 3-16 4-5 5-6 6-7
exact bonds :
1-2 1-5 2-3 3-15 7-8 8-9 9-10 10-11 10-12
isolated ring systems :
containing 1 :

G1:H,F

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 15:CLASS 16:CLASS

L4 STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4 STR



G1 H,F

Structure attributes must be viewed using STN Express query preparation.

=> s l4
SAMPLE SEARCH INITIATED 14:45:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 29 TO ITERATE

100.0% PROCESSED 29 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 257 TO 903
PROJECTED ANSWERS: 2 TO 124

L5 2 SEA SSS SAM L4

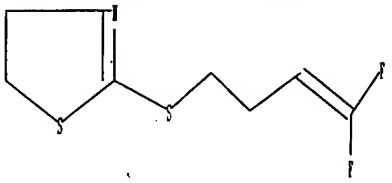
=> s l4 sss full

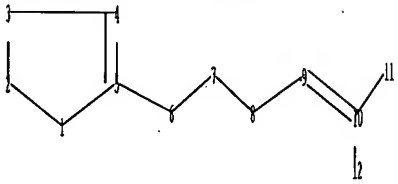
FULL SEARCH INITIATED 14:45:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 608 TO ITERATE

100.0% PROCESSED 608 ITERATIONS 12 ANSWERS
SEARCH TIME: 00.00.01

L6 12 SEA SSS FUL L4

=>
Uploading C:\Program Files\Stnexp\Queries\10560556b.str





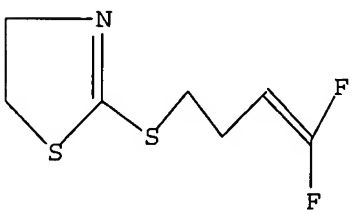
chain nodes :
6 7 8 9 10 11 12
ring nodes :
1 2 3 4 5
chain bonds :
5-6 6-7 7-8 8-9 9-10 10-11 10-12
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
3-4 4-5 5-6 6-7
exact bonds :
1-2 1-5 2-3 7-8 8-9 9-10 10-11 10-12
isolated ring systems :
containing 1 :

G1:H,F

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS

L7 STRUCTURE UPLOADED

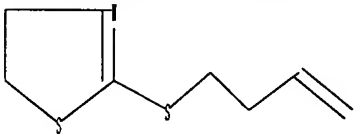
=> d l7
L7 HAS NO ANSWERS
L7 STR

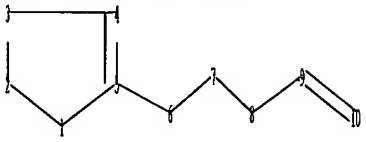


G1 H,F

Structure attributes must be viewed using STN Express query preparation.

```
=> s l7
SAMPLE SEARCH INITIATED 14:46:29 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       29 TO ITERATE

100.0% PROCESSED       29 ITERATIONS                                2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          257 TO      903
PROJECTED ANSWERS:               2 TO      124

L8            2 SEA SSS SAM L7

=> s l7 sss full
FULL SEARCH INITIATED 14:46:36 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      608 TO ITERATE

100.0% PROCESSED      608 ITERATIONS                               13 ANSWERS
SEARCH TIME: 00.00.01

L9            13 SEA SSS FUL L7

=>
Uploading C:\Program Files\Stnexp\Queries\10560556c.str
```

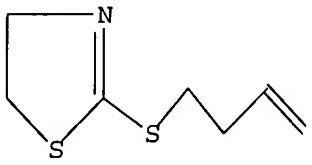




```
chain nodes :
6  7  8  9  10
ring nodes :
1  2  3  4  5
chain bonds :
5-6  6-7  7-8  8-9  9-10
ring bonds :
1-2  1-5  2-3  3-4  4-5
exact/norm bonds :
3-4  4-5  5-6  6-7
exact bonds :
1-2  1-5  2-3  7-8  8-9  9-10
isolated ring systems :
containing 1 :

G1:H,F

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:CLASS  7:CLASS  8:CLASS  9:CLASS
10:CLASS
```

L10 STRUCTURE UPLOADED

=> d l10
L10 HAS NO ANSWERS
L10 STR



G1 H,F

Structure attributes must be viewed using STN Express query preparation.

=> s l10
SAMPLE SEARCH INITIATED 14:48:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 519 TO ITERATE

100.0% PROCESSED 519 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 9014 TO 11746
PROJECTED ANSWERS: 3 TO 163

L11 3 SEA SSS SAM L10

=> s l10 sss full
FULL SEARCH INITIATED 14:48:07 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 10432 TO ITERATE

100.0% PROCESSED 10432 ITERATIONS 31 ANSWERS
SEARCH TIME: 00.00.01

L12 31 SEA SSS FUL L10

=> FIL HCAPLUS
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	669.08	669.29

FILE 'HCAPLUS' ENTERED AT 14:48:11 ON 27 SEP 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 27 Sep 2006 VOL 145 ISS 14
FILE LAST UPDATED: 26 Sep 2006 (20060926/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

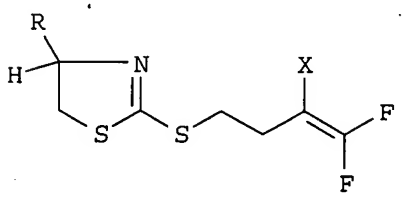
```
=> d his

     (FILE 'HOME' ENTERED AT 14:43:45 ON 27 SEP 2006)

     FILE 'REGISTRY' ENTERED AT 14:44:04 ON 27 SEP 2006
L1              STRUCTURE UPLOADED
L2            2 S L1
L3           12 S L1 SSS FULL
L4              STRUCTURE UPLOADED
L5            2 S L4
L6           12 S L4 SSS FULL
L7              STRUCTURE UPLOADED
L8            2 S L7
L9           13 S L7 SSS FULL
L10             STRUCTURE UPLOADED
L11           3 S L10
L12          31 S L10 SSS FULL

     FILE 'HCAPLUS' ENTERED AT 14:48:11 ON 27 SEP 2006

=> s l3
L13          1 L3

=> s l6
L14          1 L6

=> s l9
L15          2 L9

=> s l12
L16         18 L12

=> s l16 and uspy<=2003
'2003' NOT A VALID FIELD CODE
             0 USPY<=2003
L17          0 L16 AND USPY<=2003

=> s l16 and py<=2003
      23874506 PY<=2003
L18         17 L16 AND PY<=2003

=> s l18 and us/pc
       1593217 US/PC
L19          3 L18 AND US/PC

=> d l13 ibib abs hitstr tot
```

L13 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:33484 HCAPLUS
DOCUMENT NUMBER: 142:129076
TITLE: Thiazolylfluorobutenoic acids and nematocides containing them
INVENTOR(S): Watanabe, Yukiyoshi; Mihara, Jun; Yamazaki, Hirotoshi; Otsu, Yuichi; Shibuya, Katsuhiko; Shimojo, Eiichi
PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005008567	A2	20050113	JP 2003-174758	20030619
AU 2004254184	A1	20050113	AU 2004-254184	20040607
CA 2529727	AA	20050113	CA 2004-2529727	20040607
WO 2005003107	A1	20050113	WO 2004-EP6125	20040607
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1638949	A1	20060329	EP 2004-739659	20040607
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1809543	A	20060726	CN 2004-80017147	20040607
BR 2004011595	A	20060829	BR 2004-11595	20040607
NO 2006000258	A	20060118	NO 2006-258	20060118
US 2006173190	A1	20060803	US 2006-560556	20060221

PRIORITY APPLN. INFO.: JP 2003-174758 A 20030619
WO 2004-EP6125 W 20040607

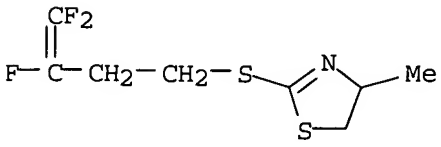
OTHER SOURCE(S): MARPAT 142:129076
GI



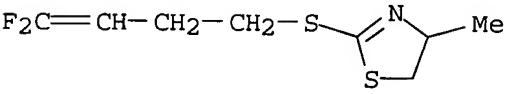
I

AB The compds. I (R = Me, Et; X = H, F) and nematocides containing I are claimed. Thus, microgranules of I (R = Me, X = F) (preparation given) showed 100% control against Meloidogyne incognita.

IT 824391-29-9P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of thiazolylfluorobutenoic acids as nematocides)
RN 824391-29-9 HCAPLUS
CN Thiazole, 4,5-dihydro-4-methyl-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)

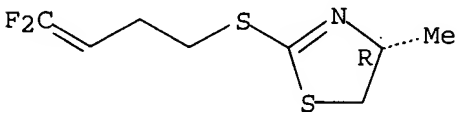


IT 824391-25-5P 824391-26-6P 824391-27-7P
824391-28-8P 824391-30-2P 824391-31-3P
824391-32-4P 824391-33-5P 824391-34-6P
824391-35-7P 824391-36-8P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of thiazolylfluorobutenoic acids as nematocides)
RN 824391-25-5 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4,5-dihydro-4-methyl- (9CI) (CA INDEX NAME)



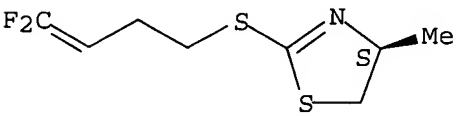
RN 824391-26-6 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4,5-dihydro-4-methyl-, (4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

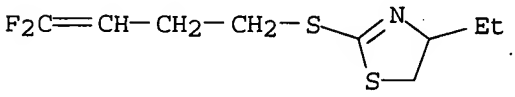


RN 824391-27-7 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4,5-dihydro-4-methyl-, (4S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

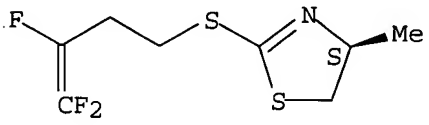


RN 824391-28-8 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4-ethyl-4,5-dihydro- (9CI) (CA INDEX NAME)



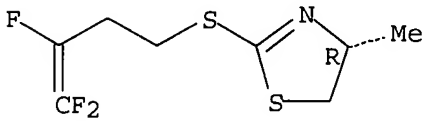
RN 824391-30-2 HCAPLUS
CN Thiazole, 4,5-dihydro-4-methyl-2-[(3,4,4-trifluoro-3-butenyl)thio]-, (4S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



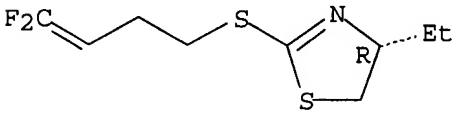
RN 824391-31-3 HCAPLUS
CN Thiazole, 4,5-dihydro-4-methyl-2-[(3,4,4-trifluoro-3-butenyl)thio]-, (4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



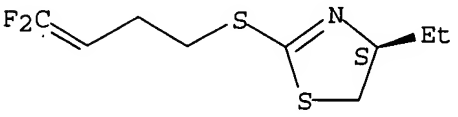
RN 824391-32-4 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4-ethyl-4,5-dihydro-, (4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



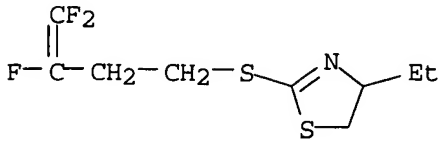
RN 824391-33-5 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4-ethyl-4,5-dihydro-, (4S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



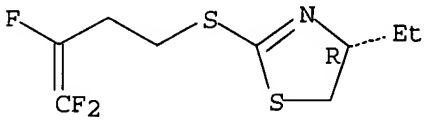
RN 824391-34-6 HCAPLUS

CN Thiazole, 4-ethyl-4,5-dihydro-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



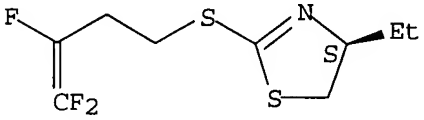
RN 824391-35-7 HCAPLUS
CN Thiazole, 4-ethyl-4,5-dihydro-2-[(3,4,4-trifluoro-3-butenyl)thio]-, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 824391-36-8 HCAPLUS
CN Thiazole, 4-ethyl-4,5-dihydro-2-[(3,4,4-trifluoro-3-butenyl)thio]-, (4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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L14 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:33484 HCAPLUS
DOCUMENT NUMBER: 142:129076
TITLE: Thiazolylfluorobutenoic acids and nematocides containing them
INVENTOR(S): Watanabe, Yukiyoshi; Mihara, Jun; Yamazaki, Hirotoshi; Otsu, Yuichi; Shibuya, Katsuhiko; Shimojo, Eiichi
PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005008567	A2	20050113	JP 2003-174758	20030619
AU 2004254184	A1	20050113	AU 2004-254184	20040607
CA 2529727	AA	20050113	CA 2004-2529727	20040607

WO 2005003107 A1 20050113 WO 2004-EP6125 20040607
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
EP 1638949 A1 20060329 EP 2004-739659 20040607
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
CN 1809543 A 20060726 CN 2004-80017147 20040607
BR 2004011595 A 20060829 BR 2004-11595 20040607
NO 2006000258 A 20060118 NO 2006-258 20060118
US 2006173190 A1 20060803 US 2006-560556 20060221
PRIORITY APPLN. INFO.: JP 2003-174758 A 20030619
WO 2004-EP6125 W 20040607
OTHER SOURCE(S): MARPAT 142:129076
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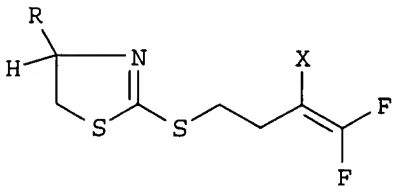


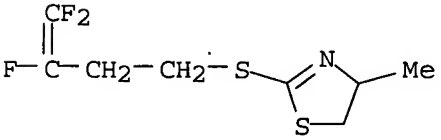
I

AB The compds. I (R = Me, Et; X = H, F) and nematocides containing I are claimed. Thus, microgranules of I (R = Me, X = F) (preparation given) showed 100% control against Meloidogyne incognita.

IT 824391-29-9P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of thiazolylfluorobutenoic acids as nematocides)

RN 824391-29-9 HCAPLUS

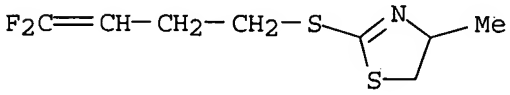
CN Thiazole, 4,5-dihydro-4-methyl-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



IT 824391-25-5P 824391-26-6P 824391-27-7P
824391-28-8P 824391-30-2P 824391-31-3P

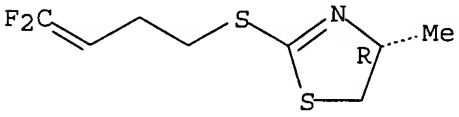
824391-32-4P 824391-33-5P 824391-34-6P
824391-35-7P 824391-36-8P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of thiazolylfluorobutenoic acids as nematocides)

RN 824391-25-5 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4,5-dihydro-4-methyl- (9CI) (CA INDEX NAME)



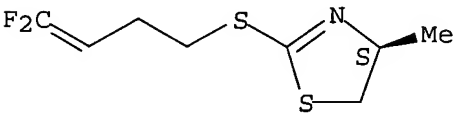
RN 824391-26-6 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4,5-dihydro-4-methyl-, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

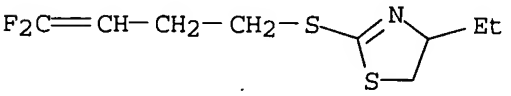


RN 824391-27-7 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4,5-dihydro-4-methyl-, (4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

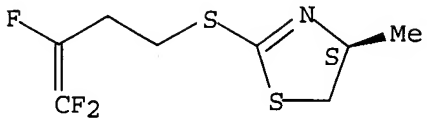


RN 824391-28-8 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4-ethyl-4,5-dihydro- (9CI) (CA INDEX NAME)



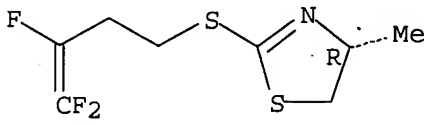
RN 824391-30-2 HCAPLUS
CN Thiazole, 4,5-dihydro-4-methyl-2-[(3,4,4-trifluoro-3-butenyl)thio]-, (4S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



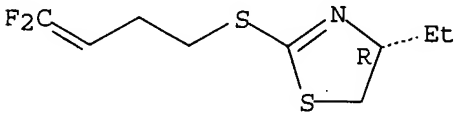
RN 824391-31-3 HCAPLUS
CN Thiazole, 4,5-dihydro-4-methyl-2-[(3,4,4-trifluoro-3-butenyl)thio]-, (4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



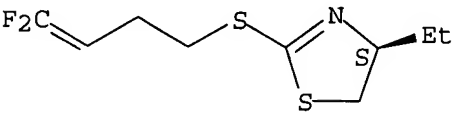
RN 824391-32-4 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4-ethyl-4,5-dihydro-, (4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

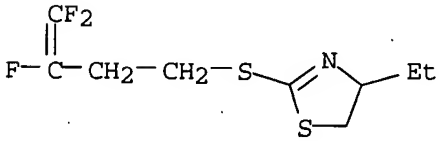


RN 824391-33-5 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4-ethyl-4,5-dihydro-, (4S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

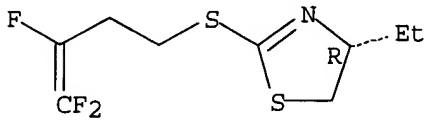


RN 824391-34-6 HCAPLUS
CN Thiazole, 4-ethyl-4,5-dihydro-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



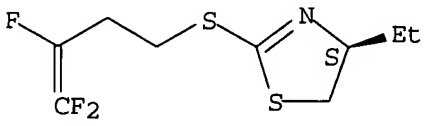
RN 824391-35-7 HCAPLUS
CN Thiazole, 4-ethyl-4,5-dihydro-2-[(3,4,4-trifluoro-3-butenyl)thio]-, (4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 824391-36-8 HCAPLUS
CN Thiazole, 4-ethyl-4,5-dihydro-2-[(3,4,4-trifluoro-3-butenyl)thio]-, (4S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



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L15 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:33484 HCAPLUS
DOCUMENT NUMBER: 142:129076
TITLE: Thiazolylfluorobutenoic acids and nematocides containing them
INVENTOR(S): Watanabe, Yukiyoshi; Mihara, Jun; Yamazaki, Hirotoshi; Otsu, Yuichi; Shibuya, Katsuhiko; Shimojo, Eiichi
PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005008567	A2	20050113	JP 2003-174758	20030619
AU 2004254184	A1	20050113	AU 2004-254184	20040607
CA 2529727	AA	20050113	CA 2004-2529727	20040607
WO 2005003107	A1	20050113	WO 2004-EP6125	20040607
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1638949	A1	20060329	EP 2004-739659	20040607
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				

CN 1809543	A	20060726	CN 2004-80017147		20040607
BR 2004011595	A	20060829	BR 2004-11595		20040607
NO 2006000258	A	20060118	NO 2006-258		20060118
US 2006173190	A1	20060803	US 2006-560556		20060221
PRIORITY APPLN. INFO.:			JP 2003-174758	A	20030619
			WO 2004-EP6125	W	20040607

OTHER SOURCE(S): MARPAT 142:129076
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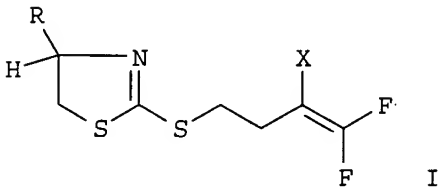


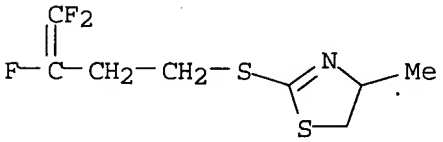
I

AB The compds. I (R = Me, Et; X = H, F) and nematocides containing I are claimed. Thus, microgranules of I (R = Me, X = F) (preparation given) showed 100% control against Meloidogyne incognita.

IT 824391-29-9P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of thiazolylfluorobutenoic acids as nematocides)

RN 824391-29-9 HCAPLUS

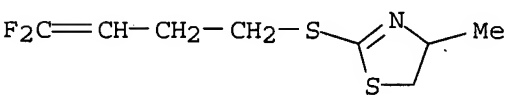
CN Thiazole, 4,5-dihydro-4-methyl-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



IT 824391-25-5P 824391-26-6P 824391-27-7P
824391-28-8P 824391-30-2P 824391-31-3P
824391-32-4P 824391-33-5P 824391-34-6P
824391-35-7P 824391-36-8P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of thiazolylfluorobutenoic acids as nematocides)

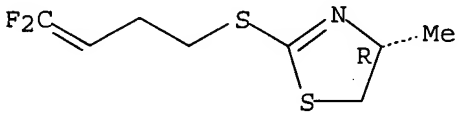
RN 824391-25-5 HCAPLUS

CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4,5-dihydro-4-methyl- (9CI) (CA INDEX NAME)



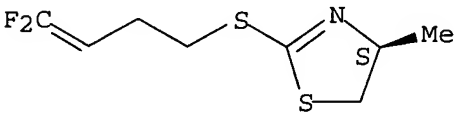
RN 824391-26-6 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4,5-dihydro-4-methyl-, (4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

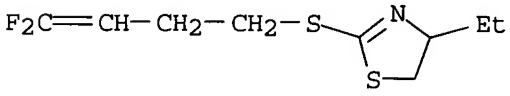


RN 824391-27-7 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4,5-dihydro-4-methyl-, (4S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

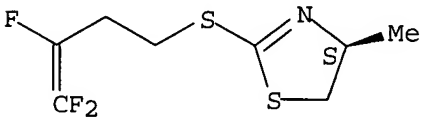


RN 824391-28-8 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4-ethyl-4,5-dihydro- (9CI) (CA INDEX NAME)



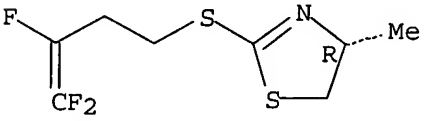
RN 824391-30-2 HCAPLUS
CN Thiazole, 4,5-dihydro-4-methyl-2-[(3,4,4-trifluoro-3-butenyl)thio]-, (4S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



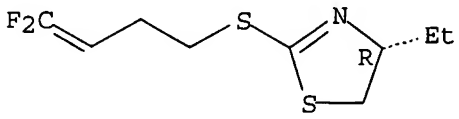
RN 824391-31-3 HCAPLUS
CN Thiazole, 4,5-dihydro-4-methyl-2-[(3,4,4-trifluoro-3-butenyl)thio]-, (4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



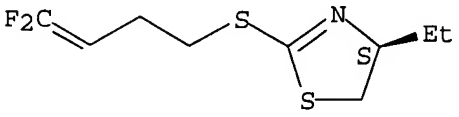
RN 824391-32-4 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4-ethyl-4,5-dihydro-, (4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

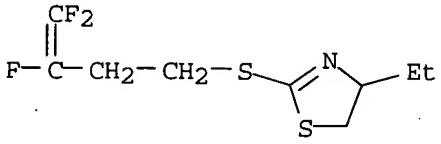


RN 824391-33-5 HCAPLUS
CN Thiazole, 2-[(4,4-difluoro-3-butenyl)thio]-4-ethyl-4,5-dihydro-, (4S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

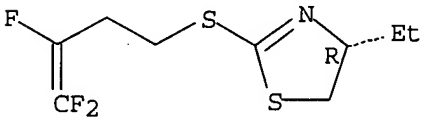


RN 824391-34-6 HCAPLUS
CN Thiazole, 4-ethyl-4,5-dihydro-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



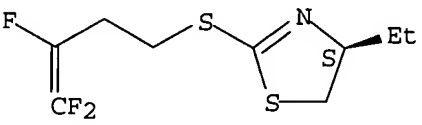
RN 824391-35-7 HCAPLUS
CN Thiazole, 4-ethyl-4,5-dihydro-2-[(3,4,4-trifluoro-3-butenyl)thio]-, (4R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 824391-36-8 HCAPLUS
CN Thiazole, 4-ethyl-4,5-dihydro-2-[(3,4,4-trifluoro-3-butenyl)thio]-, (4S)-(9CI) (CA INDEX NAME)

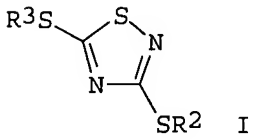
Absolute stereochemistry.



L15 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1987:496721 HCAPLUS
DOCUMENT NUMBER: 107:96721
TITLE: Pesticidal (thiadiazolylthio)trifluorobutene analogs
INVENTOR(S): Cullen, Thomas Gerard; Martinez, Anthony Joseph
PATENT ASSIGNEE(S): FMC Corp., USA
SOURCE: PCT Int. Appl., 102 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8607590	A1	19861231	WO 1986-US1284	19860612
W: AU, BR, DK, HU, JP, KR				
RW: CF, CG, CH, CM, DE, FR, GA, GB, IT, ML, MR, NL, SN, TD, TG				
AU 8661229	A1	19870113	AU 1986-61229	19860612
AU 601656	B2	19900913		
EP 228447	A1	19870715	EP 1986-904515	19860612
R: CH, DE, FR, GB, IT, LI, NL				
HU 42424	A2	19870728	HU 1986-3254	19860612
HU 204022	B	19911128		
BR 8606746	A	19871013	BR 1986-6746	19860612
JP 63500037	T2	19880107	JP 1986-503571	19860612
CA 1277668	A1	19901211	CA 1986-511879	19860618
CN 86104207	A	19870401	CN 1986-104207	19860619
ZA 8604637	A	19880224	ZA 1986-4637	19860620
DK 8700843	A	19870219	DK 1987-843	19870219
US 4952580	A	19900828	US 1988-270903	19881109
PRIORITY APPLN. INFO.:			US 1985-746911 A	19850620
			US 1985-747142 A	19850620
			US 1986-870055 B1	19860603
			WO 1986-US1284 A	19860612
			US 1988-161575 B2	19880229

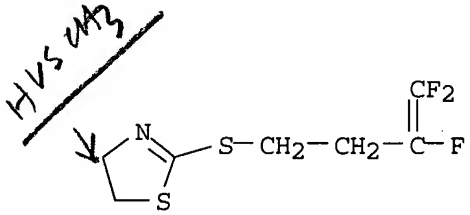
OTHER SOURCE(S): MARPAT 107:96721
GI



I

AB F2C:CF(CH2)nZR [n = 1-4; Z = S, O, N, CH2; when Z = S, R = thiazolyl, F2C:CFCH2CH2O2CCH2, or (un)substituted thienyl, thianaphthyl, thiazolinyl, thiadiazolyl, and oxadiazolyl; when Z = O, R = COR1 where R1 = perfluoroalkyl, dihydrothiazolylthiomethyl, or (un)substituted Ph, thienyl, furanyl, pyrrolyl; when Z = N, ZR = isothiocyanato, succinimido, or saccharin group; when Z = CH2, R = OH], useful as pesticides, were prepared Refluxing a mixture of 0.08 mol NCN:C(S-K+)2 and 0.08 mol S in MeOH gave 18.1 g thiadiazole derivative I (R2 = R3 = K), which was alkylated by BrCH2CH2CF:CF2 in MeCOEt to give I (R2 = R3 = CH2CH2CF:CF2), which at 5

ppm completely controlled the root-knot nematode.
IT 109992-94-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as pesticide)
RN 109992-94-1 HCAPLUS
CN Thiazole, 4,5-dihydro-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



=> d l19 ibib abs hitstr tot

L19 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:106506 HCAPLUS
DOCUMENT NUMBER: 116:106506
TITLE: Isoprenoid phosphinylformic acid squalene synthetase inhibitors and method for preparing the same
INVENTOR(S): Biller, Scott Adams
PATENT ASSIGNEE(S): E. R. Squibb and Sons, Inc., USA
SOURCE: Eur. Pat. Appl., 60 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 418814	A2	19910327	EP 1990-117930	19900918 <--
EP 418814	A3	19910703		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 5025003	A	19910618	US 1989-408974	19890918 <--
CA 2023763	AA	19910319	CA 1990-2023763	19900822 <--
JP 03148288	A2	19910625	JP 1990-249924	19900918 <--
US 5107011	A	19920421	US 1991-650823	19910205 <--
US 5166386	A	19921124	US 1991-811130	19911220 <--
PRIORITY APPLN. INFO.:			US 1989-408974 A	19890918
			US 1991-650823 A3	19910205

OTHER SOURCE(S): MARPAT 116:106506
AB RP(O)(OR2)CO2R3 [R = R1(CH2)n, R1(CH2)mO, R1(CH2)mOCH2; n = 1-4; m = 0-3; R1 = R5Q1Q2Q3; Q1-Q3 = CHR7CR6:CR8CH2, CH2CHR9CH2CH2, CH2C.tplbond.CCH2, bond; R2 = metal ion, alkyl, H; R3 = metal ion, alkyl; R5 = R10R11C:CR12CH2, R13R14CHCH2CH2; R16C.tplbond.CH2; R6 - H, F, alkyl, fluoroalkyl; R7 = H, F, alkyl, alkylthio; R8 = H, F, Me3Si, alkyl; R10,R11 = R6, alkenyl; R10R11 = (CH2)s; s = 2-7; R9 = H, alkyl; R16 = alkyl, H, Me(CH2)p; p = 2-7; R12 = H, alkyl, F, alkenyl; R13, R14 = alkyl; with provisos], were prepared as squalene synthetase inhibitors (no data). Thus, bishomofarnesol mesylate (preparation from E,E-farnesol given) was stirred 23 h with LiBr in THF to give 91% bromide; the latter in Et2O was converted to

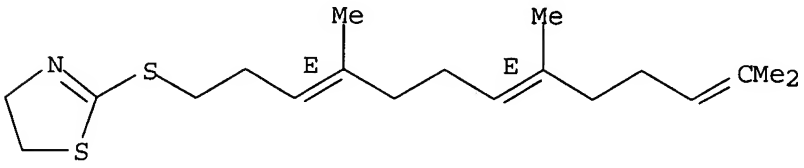
a Grignard reagent using sonication and the reagent solution was added to a 0° solution of (EtO)2P(O)Cl in Et2O. The product was treated with EtO2CCl to give 68% Et E,E-[ethoxy(5,9,13-trimethyl-4,8,12-tetradecatrienyl)phosphinyl]formate.

IT 136507-34-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for squalene synthetase inhibitor)

RN 136507-34-1 HCAPLUS

CN Thiazole, 4,5-dihydro-2-[(4,8,12-trimethyl-3,7,11-tridecatrienyl)thio]-, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L19 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1987:496721 HCAPLUS
DOCUMENT NUMBER: 107:96721
TITLE: Pesticidal (thiadiazolylthio)trifluorobutene analogs
INVENTOR(S): Cullen, Thomas Gerard; Martinez, Anthony Joseph
PATENT ASSIGNEE(S): FMC Corp., USA
SOURCE: PCT Int. Appl., 102 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8607590	A1	19861231	WO 1986-US1284	19860612 <--
W: AU, BR, DK, HU, JP, KR				
RW: CF, CG, CH, CM, DE, FR, GA, GB, IT, ML, MR, NL, SN, TD, TG				
AU 8661229	A1	19870113	AU 1986-61229	19860612 <--
AU 601656	B2	19900913		
EP 228447	A1	19870715	EP 1986-904515	19860612 <--
R: CH, DE, FR, GB, IT, LI, NL				
HU 42424	A2	19870728	HU 1986-3254	19860612 <--
HU 204022	B	19911128		
BR 8606746	A	19871013	BR 1986-6746	19860612 <--
JP 63500037	T2	19880107	JP 1986-503571	19860612 <--
CA 1277668	A1	19901211	CA 1986-511879	19860618 <--
CN 86104207	A	19870401	CN 1986-104207	19860619 <--
ZA 8604637	A	19880224	ZA 1986-4637	19860620 <--
DK 8700843	A	19870219	DK 1987-843	19870219 <--
US 4952580	A	19900828	US 1988-270903	19881109 <--

PRIORITY APPLN. INFO.:

US 1985-746911	A	19850620
US 1985-747142	A	19850620
US 1986-870055	B1	19860603
WO 1986-US1284	A	19860612
US 1988-161575	B2	19880229

OTHER SOURCE(S): MARPAT 107:96721

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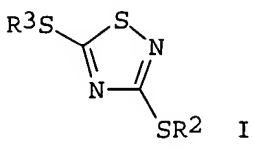


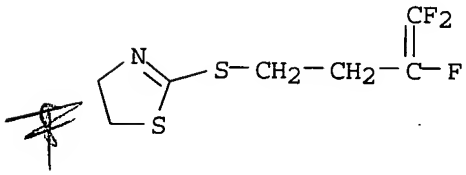
I

AB F2C:CF(CH2)nZR [n = 1-4; Z = S, O, N, CH2; when Z = S, R = thiazolyl, F2C:CFCH2CH2O2CCH2, or (un)substituted thienyl, thianaphthyl, thiazolinyl, thiadiazolyl, and oxadiazolyl; when Z = O, R = COR1 where R1 = perfluoroalkyl, dihydrothiazolylthiomethyl, or (un)substituted Ph, thienyl, furanyl, pyrrolyl; when Z = N, ZR = isothiocyanato, succinimido, or saccharin group; when Z = CH2, R = OH], useful as pesticides, were prepared Refluxing a mixture of 0.08 mol NCN:C(S-K+)2 and 0.08 mol S in MeOH gave 18.1 g thiadiazole derivative I (R2 = R3 = K), which was alkylated by BrCH2CH2CF:CF2 in MeCOEt to give I (R2 = R3 = CH2CH2CF:CF2), which at 5 ppm completely controlled the root-knot nematode.

IT 109992-94-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as pesticide)

RN 109992-94-1 HCAPLUS

CN Thiazole, 4,5-dihydro-2-[(3,4,4-trifluoro-3-butenyl)thio]- (9CI) (CA INDEX NAME)



L19 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1986:460598 HCAPLUS

DOCUMENT NUMBER: 105:60598

TITLE: Nematocidal 2-(substituted thio)-4,5-dihydrothiazoles

INVENTOR(S): Martinez, Anthony J.

PATENT ASSIGNEE(S): FMC Corp. , USA

SOURCE: U.S., 5 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

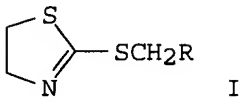
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4584306	A	19860422	US 1984-596759	19840404 <--

PRIORITY APPLN. INFO.: US 1984-596759 19840404

OTHER SOURCE(S): CASREACT 105:60598

GI



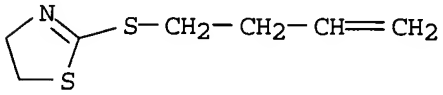
I

AB The title compds. [I; R = furanyl, (halo)tetrahydrofuranyl, (halo)thienyl] were prepared as nematocides. Thus, 1.3 g 2-mercapto-2-thiazoline was condensed with 1.5 g 2-(chloromethyl)thiophene to give 2.4 g I (R = 2-thienyl) (II). II gave 100% control of Meloidogyne incognita at 25 ppm in a granular formulation containing 5% I and 95% Attaclay.

IT 53334-84-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as nematocide)

RN 53334-84-2 HCAPLUS

CN Thiazole, 2-(3-butenylthio)-4,5-dihydro- (9CI) (CA INDEX NAME)



=> d l18 ibib abs tot

L18 ANSWER 1 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:176651 HCAPLUS

DOCUMENT NUMBER: 122:55629

TITLE: Intramolecular Diels-Alder reaction of 8-trifluoromethyl-1,3,8-nonatrienes: an access to angular trifluoromethylated hydrindenes

AUTHOR(S): Zhu, Gui-Dong; Van Lancker, Bart; Van Haver, Dirk; De Clercq, Pierre J.

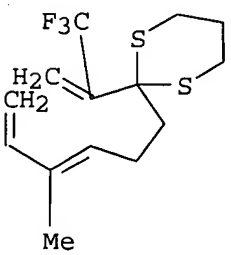
CORPORATE SOURCE: Dept. Org. Chem., Univ. Ghent, Ghent, B-9000, Belg.

SOURCE: Bulletin des Societes Chimiques Belges (1994), 103(5-6), 263-71
CODEN: BSCBAG; ISSN: 0037-9646

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



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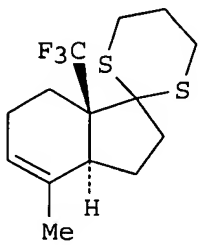


II

AB The intramol. Diels-Alder reaction of 8-trifluoromethyl-1,3,8-nonatrienes as a possible route toward angular trifluoromethylated hydrindenes is explored for the first time. As in the case of the parent 3-Me nonatrienes, the cycloaddn. was found to give predominantly trans-fused adducts. Thus Diels-Alder reaction of nonatriene I gave 63% hydrindanone II.

L18 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1992:106506 HCAPLUS
DOCUMENT NUMBER: 116:106506
TITLE: Isoprenoid phosphinylformic acid squalene synthetase inhibitors and method for preparing the same
INVENTOR(S): Biller, Scott Adams
PATENT ASSIGNEE(S): E. R. Squibb and Sons, Inc., USA
SOURCE: Eur. Pat. Appl., 60 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 418814	A2	19910327	EP 1990-117930	19900918 <--
EP 418814	A3	19910703		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 5025003	A	19910618	US 1989-408974	19890918 <--
CA 2023763	AA	19910319	CA 1990-2023763	19900822 <--
JP 03148288	A2	19910625	JP 1990-249924	19900918 <--
US 5107011	A	19920421	US 1991-650823	19910205 <--
US 5166386	A	19921124	US 1991-811130	19911220 <--
PRIORITY APPLN. INFO.:			US 1989-408974 A	19890918
			US 1991-650823 A3	19910205

OTHER SOURCE(S): MARPAT 116:106506
AB RP(O)(OR2)CO2R3 [R = R1(CH2)n, R1(CH2)mO, R1(CH2)mOCH2; n = 1-4; m = 0-3; R1 = R5Q1Q2Q3; Q1-Q3 = CHR7CR6:CR8CH2, CH2CHR9CH2CH2, CH2C.tplbond.CCH2, bond; R2 = metal ion, alkyl, H; R3 = metal ion, alkyl; R5 = R10R11C:CR12CH2, R13R14CHCH2CH2; R16C.tplbond.CH2; R6 - H, F, alkyl, fluoroalkyl; R7 = H, F, alkyl, alkylthio; R8 = H, F, Me3Si, alkyl; R10,R11 = R6, alkenyl; R10R11 = (CH2)s; s = 2-7; R9 = H, alkyl; R16 = alkyl, H, Me(CH2)p; p = 2-7; R12 = H, alkyl, F, alkenyl; R13, R14 = alkyl; with provisos], were prepared as squalene synthetase inhibitors (no data). Thus, bishomofarnesol mesylate (preparation from E,E-farnesol given) was stirred 23 h with LiBr in THF to give 91% bromide; the latter in Et2O was converted to a Grignard reagent using sonication and the reagent solution was added to a 0° solution of (EtO)2P(O)Cl in Et2O. The product was treated with EtO2CCl to give 68% Et E,E-[ethoxy(5,9,13-trimethyl-4,8,12-tetradecatrienyl)phosphinyl]formate.

L18 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1988:570098 HCAPLUS
DOCUMENT NUMBER: 109:170098
TITLE: C5-Homologation of ubiquinone-9 to ubiquinone-10 using sulfur-containing synthons
AUTHOR(S): Veselovskii, A. B.; Moisenkov, A. M.; Filippova, T. M.; Obol'nikova, E. A.; Samokhvalov, G. I.
CORPORATE SOURCE: Inst. Org. Khim. im. Zelinskogo, Moscow, USSR
SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (

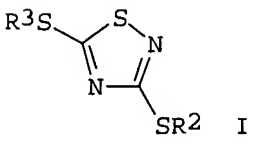
1988), (3), 695-701
CODEN: IASKA6; ISSN: 0002-3353
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 109:170098
AB The title homologation was carried out via alkylation of the appropriate chloride with RCH2CH:CMe2 (R = PhS, PhSO2, thiazolinylthio), followed by elimination with NaOEt.

L18 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1987:496721 HCAPLUS
DOCUMENT NUMBER: 107:96721
TITLE: Pesticidal (thiadiazolylthio)trifluorobutene analogs
INVENTOR(S): Cullen, Thomas Gerard; Martinez, Anthony Joseph
PATENT ASSIGNEE(S): FMC Corp., USA
SOURCE: PCT Int. Appl., 102 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8607590	A1	19861231	WO 1986-US1284	19860612 <--
W: AU, BR, DK, HU, JP, KR				
RW: CF, CG, CH, CM, DE, FR, GA, GB, IT, ML, MR, NL, SN, TD, TG				
AU 8661229	A1	19870113	AU 1986-61229	19860612 <--
AU 601656	B2	19900913		
EP 228447	A1	19870715	EP 1986-904515	19860612 <--
R: CH, DE, FR, GB, IT, LI, NL				
HU 42424	A2	19870728	HU 1986-3254	19860612 <--
HU 204022	B	19911128		
BR 8606746	A	19871013	BR 1986-6746	19860612 <--
JP 63500037	T2	19880107	JP 1986-503571	19860612 <--
CA 1277668	A1	19901211	CA 1986-511879	19860618 <--
CN 86104207	A	19870401	CN 1986-104207	19860619 <--
ZA 8604637	A	19880224	ZA 1986-4637	19860620 <--
DK 8700843	A	19870219	DK 1987-843	19870219 <--
US 4952580	A	19900828	US 1988-270903	19881109 <--

PRIORITY APPLN. INFO.:
US 1985-746911 A 19850620
US 1985-747142 A 19850620
US 1986-870055 B1 19860603
WO 1986-US1284 A 19860612
US 1988-161575 B2 19880229

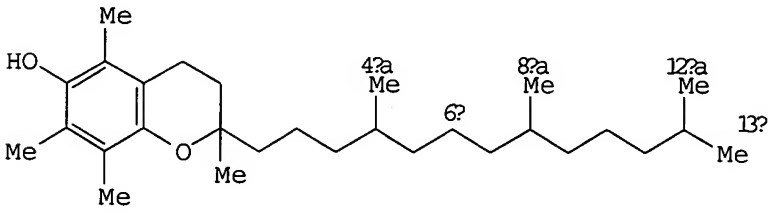
OTHER SOURCE(S): MARPAT 107:96721
GI



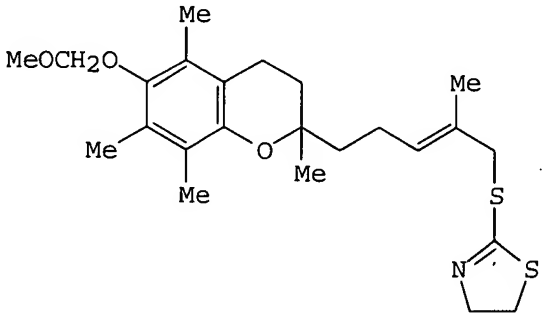
I

AB F2C:CF(CH2)nZR [n = 1-4; Z = S, O, N, CH2; when Z = S, R = thiazolyl, F2C:CFCH2CH2O2CCH2, or (un)substituted thienyl, thianaphthyl, thiazolinyl, thiadiazolyl, and oxadiazolyl; when Z = O, R = COR1 where R1 = perfluoroalkyl, dihydrothiazolylthiomethyl, or (un)substituted Ph, thienyl, furanyl, pyrrolyl; when Z = N, ZR = isothiocyanato, succinimido, or saccharin group; when Z = CH2, R = OH], useful as pesticides, were prepared Refluxing a mixture of 0.08 mol NCN:C(S-K+)2 and 0.08 mol S in MeOH gave 18.1 g thiadiazole derivative I (R2 = R3 = K), which was alkylated by BrCH2CH2CF:CF2 in MeCOEt to give I (R2 = R3 = CH2CH2CF:CF2), which at 5 ppm completely controlled the root-knot nematode.

L18 ANSWER 5 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1987:138667 HCAPLUS
DOCUMENT NUMBER: 106:138667
TITLE: Synthesis of carbon-13 labeled vitamin E and interaction between vitamin E and phospholipid in liposome
AUTHOR(S): Urano, Shiro; Matsuo, M.
CORPORATE SOURCE: Tokyo Metrop. Inst. Gerontol., Tokyo, 173, Japan
SOURCE: Synth. Appl. Isot. Labeled Compd. Proc. Int. Symp., 2nd (1986), Meeting Date 1985, 517-18. Editor(s): Muccino, Richard Robert. Elsevier: Amsterdam, Neth. CODEN: 55BUAT
DOCUMENT TYPE: Conference
LANGUAGE: English
GI



I



II

AB Vitamin E with a 13C-labeled isoprenoid side chain, [4'a-13C], [6'-13C], [8'a-13C] and [12'a and 13'-13C]α-tocopherols (I) were synthesized using II chroman as a key intermediate. These 13C-labeled compds. were incorporated into three kinds of lecithin liposomes from dipalmitoyl phosphatidylcholine, egg lecithin and rat liver lecithin, of which arachiodonic acid contents are 0, 2.6 and 19.0%, resp. T1 values, which were measured by NMR for the labeled carbons, indicate that the segmental motion tends to increase with the increase of the distance from the

chroman ring. This tendency is not affected with the arachidonic acid contents of phospholipids. This result can not be explained by Lucy's hypothesis.

L18 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1986:627071 HCAPLUS
DOCUMENT NUMBER: 105:227071
TITLE: The synthesis of C-13 labeled vitamin E, [6'-13C]all-rac-α-tocopherol
AUTHOR(S): Urano, Shiro; Otani, Ikuko; Matsuo, Mitsuyoshi
CORPORATE SOURCE: Tokyo Metrop. Inst. Gerontol., Tokyo, 173, Japan
SOURCE: Heterocycles (1985), 23(11), 2793-6
CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 105:227071
AB Vitamin E with a 13C-labeled isoprenoid side chain, [6'-13C]all-rac-α-tocopherol (I), was synthesized using 6-(methoxymethoxy)-2,5,7,8-tetramethyl-2-[(E)-4-methyl-5-(thiazolin-2-yl)thio-3-penten-1-yl]chroman as a key intermediate and BrCH213CO2Et (II) as a 13C source. The overall yield of I based on II was 19.2%.

L18 ANSWER 7 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1986:460598 HCAPLUS
DOCUMENT NUMBER: 105:60598
TITLE: Nematocidal 2-(substituted thio)-4,5-dihydrothiazoles
INVENTOR(S): Martinez, Anthony J.
PATENT ASSIGNEE(S): FMC Corp. , USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4584306	A	19860422	US 1984-596759	19840404 <--
PRIORITY APPLN. INFO.:			US 1984-596759	19840404

OTHER SOURCE(S): CASREACT 105:60598
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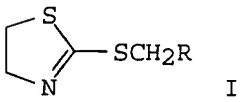
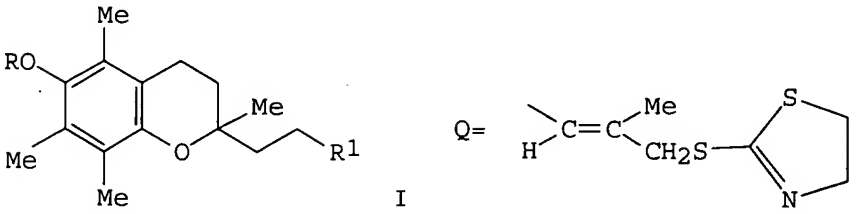


I

AB The title compds. [I; R = furanyl, (halo)tetrahydrofuranyl, (halo)thienyl] were prepared as nematocides. Thus, 1.3 g 2-mercapto-2-thiazoline was condensed with 1.5 g 2-(chloromethyl)thiophene to give 2.4 g I (R = 2-thienyl) (II). II gave 100% control of Meloidogyne incognita at 25 ppm in a granular formulation containing 5% I and 95% Attaclay.

L18 ANSWER 8 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1986:6040 HCAPLUS
DOCUMENT NUMBER: 104:6040

TITLE: The synthesis of carbon-13 labeled vitamin E, [12'a,13'-13C]all-rac-α-tocopherol
AUTHOR(S): Urano, Shiro; Nakano, Shunichiro; Matsuo, Mitsuyoshi
CORPORATE SOURCE: Tokyo Metrop. Inst. Gerontol., Tokyo, 173, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1985), 33(3), 1266-9
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 104:6040
GI



I

AB The title compound [I, R = H, R1 = CH2CHMe(CH2)3CHMe(CH2)3CH(13CH3)2] was prepared in many steps from geranyl benzoate via alkylation of I (R = MeOCH2, R1 = Q) with (E)-(13CH3)2C:CHCH2CH2CMe:CHCH2Br, obtained by Wittig condensation of (E)-BrPPh3(CH2)3CMe:CHCH2OBz with 13CH3CO13CH3 followed by bromination with CBr4/PPh3.

L18 ANSWER 9 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1984:611495 HCAPLUS
DOCUMENT NUMBER: 101:211495
TITLE: The synthesis of C-13 labeled vitamin E, [2a-13C]all-rac-α-tocopherol
AUTHOR(S): Urano, Shiro; Matsuo, Mitsuyoshi
CORPORATE SOURCE: Tokyo Metrop. Inst. Gerontol., Tokyo, 173, Japan
SOURCE: Heterocycles (1984), 22(9), 1975-7
CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal
LANGUAGE: English
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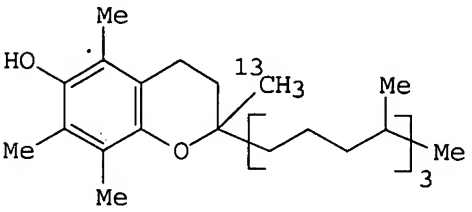

I

AB The title compound (I) was prepared in 65.4% overall yield based on 13CH3MgI (II) via Grignard reaction of Me[CHMe(CH2)3]3CHO with II, Wittig condensation of Me[CHMe(CH2)3]3CO13CH3 with HOCH2CH2P+Ph3Br-, and condensation of the resulting Me[CHMe(CH2)3]3C(13CH3):CHCH2OH with trimethylhydroquinone.

L18 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1984:210218 HCAPLUS
DOCUMENT NUMBER: 100:210218
TITLE: Polyprenyl compounds
PATENT ASSIGNEE(S): Kuraray Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58206554	A2	19831201	JP 1982-90886	19820527 <--
JP 03059058	B4	19910909		
PRIORITY APPLN. INFO.:			JP 1982-90886	19820527

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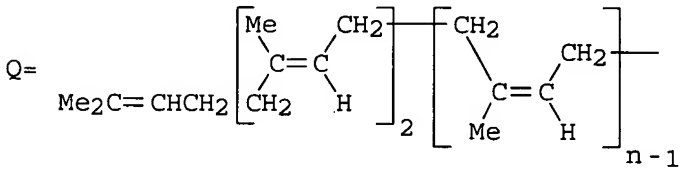
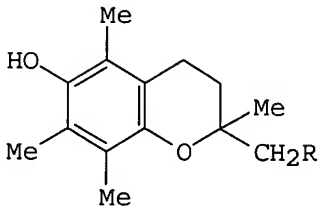
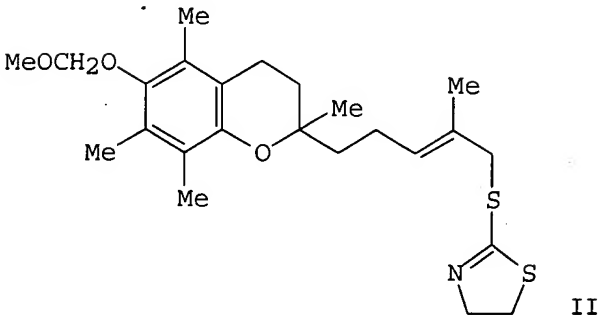


AB QCH2CMe:CHCHR1CHR2CMe:CHCH2CH2CHMeCH2CH2R [I, R = (protected) OH; R1,R2 = H, S(O)mR3 where m = 0, 1, 2 and R3 = alkyl, (halo) Ph, naphthyl, pyridyl, thiazolinyl; n = 10-18] were prepared Thus, QCH2CMe:CHCH2R4 (II, R4 = OH, n = 15), isolated from Pinus densiflora along with II (R4 = OH; n = 10-14, 16-18), was treated with HSPh in DMF containing K2CO3 to give II (R4 = SPh, n = 15), whose oxidation gave II (R4 = SO2Ph, n = 15), reaction of which (6.83 g) with 1.92 g BrCH2CMe:CHCH2CH2CHMeCH2CH2Q1 (Q1 = tetrahydropyran-2-yloxy) in THF containing (Me2N)3PO and BuLi at -10 to 0° for 1 h and then at 20° overnight gave 6.74 g I (R = tetrahydropyran-2-yloxy, R1 = SO2Ph, R2 = H, n = 15), deprotection of which in EtOH-HCl-H2O gave I (R = OH, R1 = SO2Ph, R2 = H, n = 15).

L18 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1984:210191 HCAPLUS
DOCUMENT NUMBER: 100:210191
TITLE: Synthesis of dl-α-tocopherol and dl-α-tocotrienol
AUTHOR(S): Urano, Shiro; Nakano, Shunichiro; Matsuo, Mitsuyoshi
CORPORATE SOURCE: Tokyo Metrop. Inst. Gerontol., Tokyo, 173, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1983), 31(12), 4341-5
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



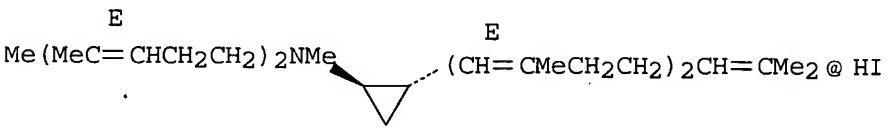
I



II

AB (±)-α-Tocotrienol and (±)-α-tocopherol [I, R = (CH2CH:CMeCH2)3H;(CH2CH2CHMeCH2)3H; resp.] were prepared in several steps via coupling of the thiazolinylthio derivative II with geranyl bromide in the presence of BuLi, reduction (Zn/AcOH, HClO4), and optional hydrogenation.

L18 ANSWER 12 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1983:13637 HCAPLUS
DOCUMENT NUMBER: 98:13637
TITLE: Squalene synthetase. Inhibition by an ammonium analog of a carbocationic intermediate in the conversion of presqualene pyrophosphate to squalene
AUTHOR(S): Sandifer, Ronda M.; Thompson, Michael D.; Gaughan, Roger G.; Poulter, C. Dale
CORPORATE SOURCE: Dep. Chem., Univ. Utah, Salt Lake City, UT, 84112, USA
SOURCE: Journal of the American Chemical Society (1982), 104(25), 7376-8
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

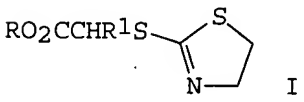


I

AB Squalene synthetase catalyzes the 1'-1 condensation of 2 mols. of farnesyl pyrophosphate to squalene in 2 steps via the cyclopropylcarbinyl intermediate, presqualene pyrophosphate. This conversion has been proposed to involve rearrangement of a primary cyclopropylcarbinyl carbocation to a tertiary cyclopropylcarbinyl species, with the strict regiocontrol of the enzymic reaction a result of the proximity of inorg. pyrophosphate (PPi) and the 2 carbocations. The present study describes

the synergistic inhibition of squalene synthetase by PPi and an ammonium analog (I) of the hypothetical tertiary carbocationic intermediate. Since phosphate and Tris buffers depressed the activity of the enzyme, studies of the inhibition were done with bicyclo[2.2.1]hept-5-ene-2,3-dicarboxylic acid as buffer. In buffer containing 0.25 mM PPi, 0.5 μM farnesyl pyrophosphate, and I (3 and 10 μM), the rate of squalene production was depressed (33% and 73%, resp.). Since, sep., the same concns. of PPi and I had negligible effects on the rate of production of squalene, the synergistic inhibition by PPi and I is consistent with the tight binding of the carbocation-PPi ion pair by squalene synthetase.

L18 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1978:61941 HCAPLUS
DOCUMENT NUMBER: 88:61941
TITLE: A new synthetic method using thiazoline derivative. VI. C2-unit elongation reactions : alkoxycarbonylmethylation (-CH2CO2R) and alkoxycarbonyliodomethylation (-CHICO2R) reactions
AUTHOR(S): Hirai, Koichi; Iwano, Yuji; Kishida, Yukichi
CORPORATE SOURCE: Cent. Res. Lab., Sankyo Co. Ltd., Tokyo, Japan
SOURCE: Tetrahedron Letters (1977), (31), 2677-80
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 88:61941
GI



I

AB The thiothiazolines I (R = Me, Et, R1 = H), prepared from the corresponding BrCH2CO2R and 2-mercaptothiazoline, were alkylated and then either reduced or iodomethylated to give the required esters or α-iodo esters. E.g. I (R = Me, R1 = H) reacted with MeI in the presence of NaH in DMF/THF (1:1) at room-temperature to give 48% I (R = R1 = Me) which with Zn/AcOH gave 78% EtCO2Me and with MeI/DMF in the presence of CaCO3 and Hg gave 52% MeCHICO2Me. Dialkylation of I (R = Et, R1 = H) was achieved with MeI or CH2:CHCH2Br and gave, after subsequent Zn/AcOH reduction, R2CHCO2Et (R = Me, CH2:CHCH2). I (R = Et, R1 = Me) underwent benzylation and desulfurization to give PhCH2CHMeCO2Et.

L18 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1976:577699 HCAPLUS
DOCUMENT NUMBER: 85:177699
TITLE: Farnesylacetic acid esters
INVENTOR(S): Fujimoto, Yasuo; Suzuki, Yoshio; Komiyama, Tetsuro; Watanabe, Haruhiko
PATENT ASSIGNEE(S): Japan Chemipha. Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51026811	A2	19760305	JP 1974-96175	19740823 <--

PRIORITY APPLN. INFO.: JP 1974-96175 A 19740823

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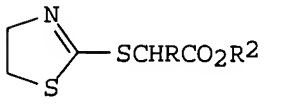

I, R=H
II, R=R1

AB R1CH2CO2R2 (R1 = farnesyl, R2 = organic residues) were prepared by reaction of the thiazolines I with R1X (X = halo) in the presence of bases followed by desulfurization of the resulting II. The products had anti-ulcer activity (no data). In an example, 13 g I (R2 = geranyl) in THF was treated with 3.44 g farnesyl bromide in the presence of NaH to give 5.2 g geranyl farnesyl(thiazolinylthio)acetate (III), which was desulfurized with Zn to give 0.92 g geranyl farnesylacetate.

L18 ANSWER 15 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1974:491510 HCAPLUS
DOCUMENT NUMBER: 81:91510
TITLE: Thiol esters
INVENTOR(S): Yamaguchi, Kazutaka; Sato, Shigeo; Kurumi, Masateru; Sakurai, Yojiro; Okutome, Toshiyuki
PATENT ASSIGNEE(S): Torii and Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49041373	A2	19740418	JP 1972-83173	19720819 <--
JP 50024311	B4	19750814		

PRIORITY APPLN. INFO.: JP 1972-83173 A 19720819

GI For diagram(s), see printed CA Issue.

AB Thiol esters (I; R = H, alkyl, substituted alkyl, allyl, substituted allyl, aryl, substituted aryl, aralkyl, thiazolidinylidenecarbonylthioalkyl) were prepared by condensing 2-(monosubstituted methylthio)-thiazolines (II) with cyanoacetic acid (III) in Ac2O followed by hydrolysis of resulting IV. I had antiinflammatory action. E.g., stirring 1,3-bis(2-thiazolinyl-2-thio)propane, 1.39 AcONa 0.2, and III 0.85 g in Ac2O overnight at room temperature gave 2.1 g 1,3-di-mercaptopropane bis[(N'-acetyl-2'-thiazolidinylidene)cyano-acetate] (V). Heating 0.5 g V with 10% NaOH 10 min yielded 0.39 g 1,3-dimercaptopropane bis[(2'-thiazolidinylidene)cyano-acetate]. Allylmercaptan (2'-thiazolidinylidene)cyanoacetate was similarly prepared

L18 ANSWER 16 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1972:514293 HCAPLUS
DOCUMENT NUMBER: 77:114293
TITLE: Chemistry of 2-substituted thiothiazoline. III. Reactivities of dianion of 2-propargylthiothiazoline

and related 2-alkynylthiothiazolinelithium derivatives
AUTHOR(S): Hirai, Koichi; Kishida, Yukichi
CORPORATE SOURCE: Cent. Res. Lab., Sankyo Co., Ltd., Tokyo, Japan
SOURCE: Tetrahedron Letters (1972), (21), 2117-20
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB 2-(Propargylthio)thiazoline (I, R = R1 = H) (II) was lithiated to the di-Li derivative (I, R = R1 = Li), which was alkynylated to the diyne derivative
Desulfurization of the diyne derivs. gave isomeric diyne and dienyne compds. Thus, II was treated with BuLi in THF under N to give the di-Li salt, to which was added. PhC.tplbond.-CCH2Br and H2O O give 60% I (R = PhC.tplbond.CCH2, R1 = H) (III). Similarly were prepared 14 I. III was treated with Zn-HOAc to give quant. 1:8 PhC.tplbond.C(CH2)2C.tplbond.CH and PhC.tplbond.CCH3CH:C:CH2.

L18 ANSWER 17 OF 17 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1972:59796 HCAPLUS
DOCUMENT NUMBER: 76:59796
TITLE: New synthesis of squalene using 2-alkenylthiothiazolinelithium derivative
AUTHOR(S): Hirai, Koichi; Matsuda, Hidebumi; Kishida, Yukichi
CORPORATE SOURCE: Cent. Res. Lab., Sankyo Co., Ltd., Tokyo, Japan
SOURCE: Tetrahedron Letters (1971), (46), 4359-622
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 76:59796
GI For diagram(s), see printed CA Issue.
AB Treatment of I (R=H, Ph, CH:CH2, CH:CHPh) with BuLi gave II (R1=Li) which was treated with alkyl halides to give II (R1=Me, Et, Bu, iso-Pr, PhCH2, 4-ClC6H4, n-C10H21, CH2:CHCH2, 4-MeC6H4CH2, PhCH:CHCH2) and III (R=H). Treatment of III (R=H) with BuLi gave III (R=Li) which was treated with farnesyl bromide gave 44% IV which was desulfurized in 4:1 EtOH-THF over Raney Ni to give 80% squalene.

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